Title: Systems and Methods for Generating Digital Images Having Image Meta-Data Combined with the Image Data
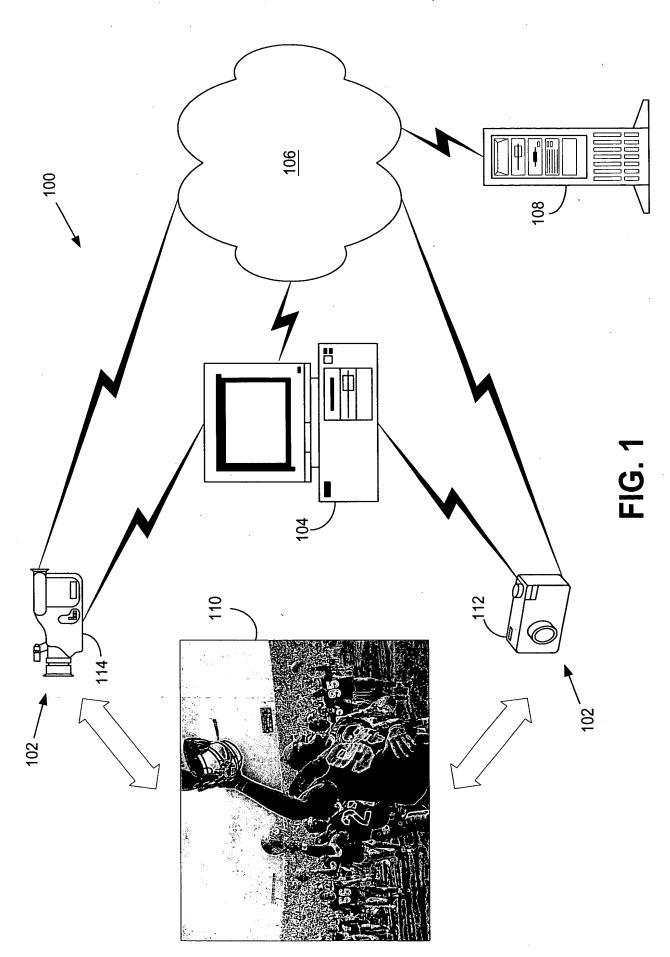Inventor(s): Seaman, et al.
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106

108

104

110

114

102

112

102

FIG. 1

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102

MEMORY 202

IMAGE STORAGE 212

IMAGE ANALYSIS ALGORITHMS 216

IMAGE CAPTURE MODULE 214

META-DATA ENHANCED IMAGE GENERATION MODULE 218

PROCESSING DEVICE 200

LOCAL INTERFACE 210

NETWORK INTERFACE DEVICE(s) 204

USER INTERFACE DEVICE(s) 206

IMAGE CAPTURE HARDWARE 208

DIRECT INTERFACE DEVICE(s) 209
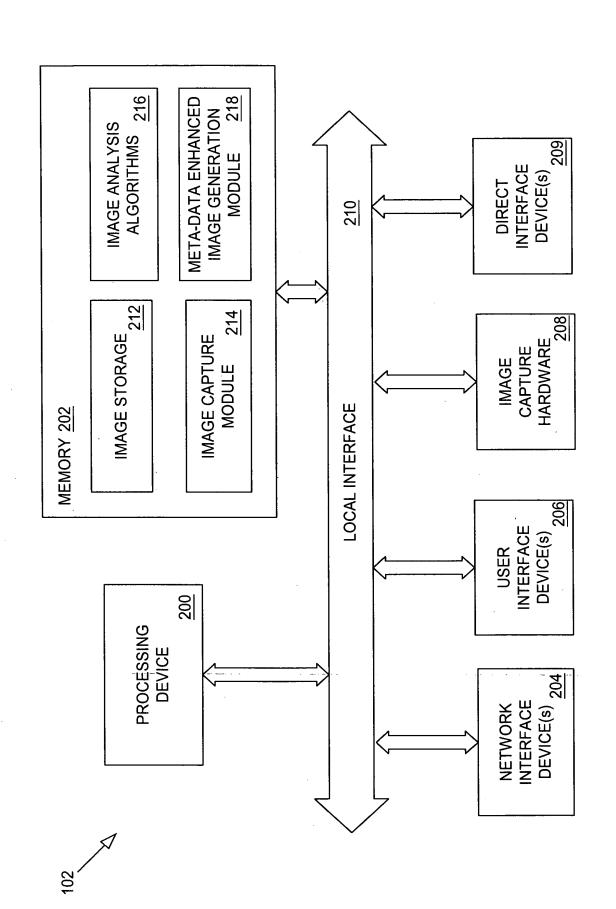
FIG. 2

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218

302

Retrieve image data 402 associated with image 110

304

Apply at least one predefined image analysis algorithm 216 to image data 402, the predefined image analysis algorithm 216 identifying whether the image 110 contains specific image meta-data 404

306

Associate the image meta-data 404 with image data 402

308

Combine the image meta-data 404 with image data 402 to define a new image file 406

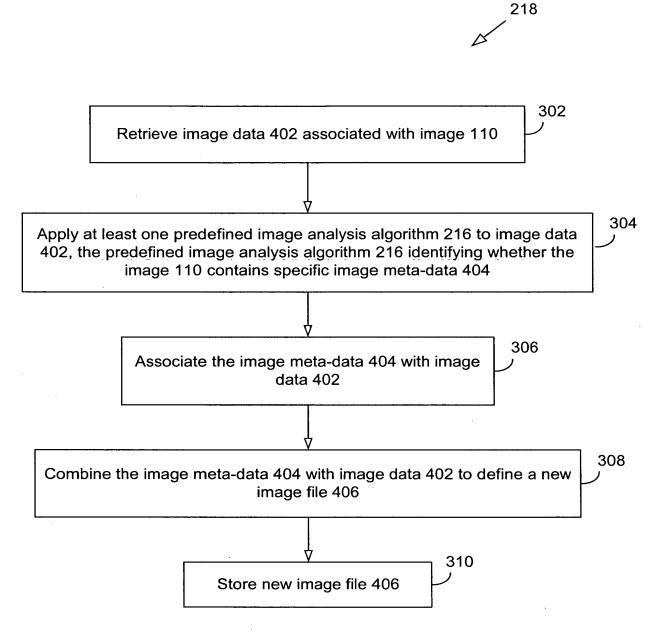310

Store new image file 406

FIG. 3

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IMAGE FILE 400

IMAGE DATA 402

IMAGE ANALYSIS ALGORITHM 216

IMAGE META-DATA 404

NEW IMAGE FILE 406

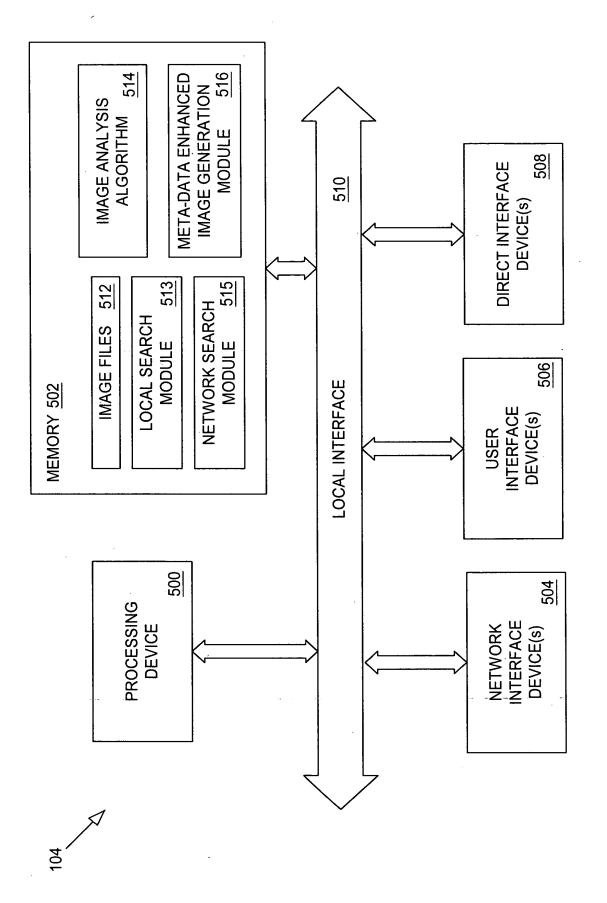IMAGE DATA 402

IMAGE META-DATA 404

218

FIG. 4

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104

MEMORY 502

IMAGE FILES 512

LOCAL SEARCH
MODULE 513

NETWORK SEARCH
MODULE 515

IMAGE ANALYSIS
ALGORITHM 514

META-DATA ENHANCED
IMAGE GENERATION
MODULE 516

510

LOCAL INTERFACE

PROCESSING
DEVICE 500

NETWORK
INTERFACE
DEVICE(s) 504

USER
INTERFACE
DEVICE(s) 506

DIRECT INTERFACE
DEVICE(s) 508
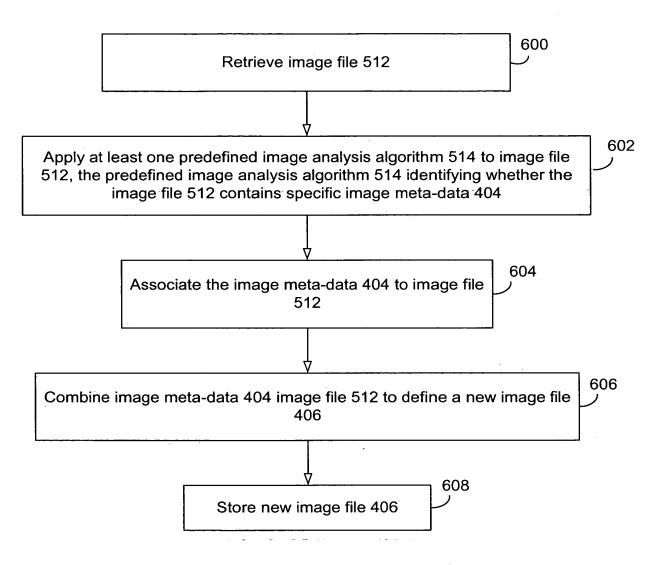
FIG. 5

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516

600
Retrieve image file 512

602
Apply at least one predefined image analysis algorithm 514 to image file 512, the predefined image analysis algorithm 514 identifying whether the image file 512 contains specific image meta-data 404

604
Associate the image meta-data 404 to image file 512

606
Combine image meta-data 404 image file 512 to define a new image file 406

608
Store new image file 406

FIG. 6

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e Meta-Data Combined with the Image Data
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513

```
┌─────────────────────────────────────────────────┐  700
│                                                   │
│           Prompt user for a search query          │
│                                                   │
└─────────────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────────────┐  702
│          Receive the search query, the search query │
│  comprising information related to specific image meta- │
│                        data                       │
└─────────────────────────────────────────────────┘
```

704

```
┌─────────────────────────────────────────────────┐
│  Search new image files 406 to identify which of the new image files have │
│ image meta-data 404 that matches the specific image meta-data associated │
│                   with the search query           │
└─────────────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────────────┐  706
│  Provide information related to each of new image files 406 │
│             that matches the search query         │
└─────────────────────────────────────────────────┘
```
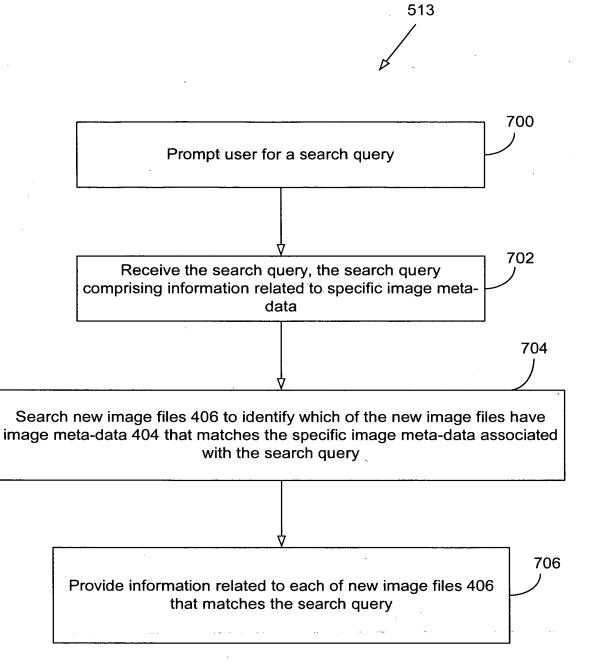
FIG. 7

Title: Systems and Methods for Generating Digital Images Having
Image Meta-Data Combined with the Image Data
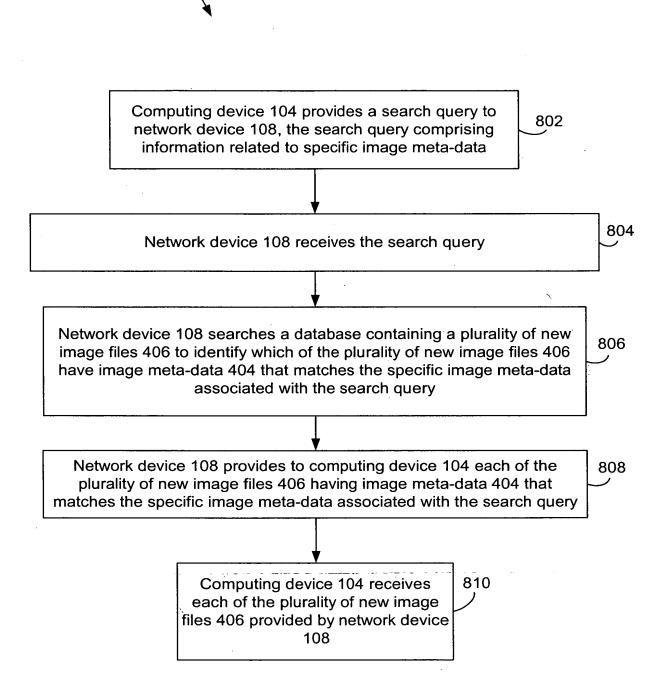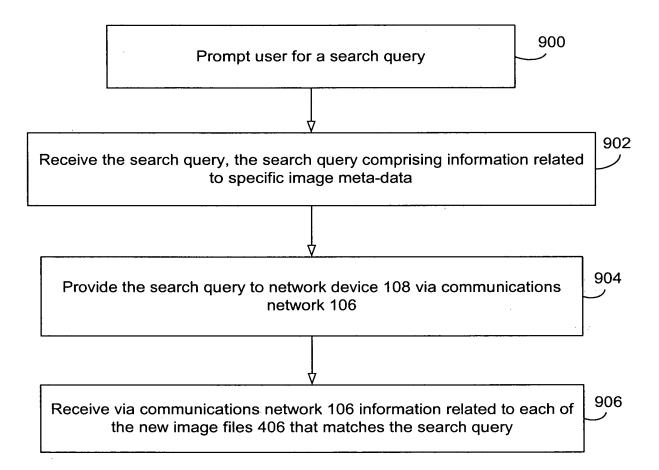Inventor(s): Seaman, et al.
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800

Computing device 104 provides a search query to
network device 108, the search query comprising
information related to specific image meta-data   802

Network device 108 receives the search query   804

Network device 108 searches a database containing a plurality of new
image files 406 to identify which of the plurality of new image files 406
have image meta-data 404 that matches the specific image meta-data
associated with the search query   806

Network device 108 provides to computing device 104 each of the
plurality of new image files 406 having image meta-data 404 that
matches the specific image meta-data associated with the search query   808

Computing device 104 receives
each of the plurality of new image
files 406 provided by network device   810
108

FIG. 8

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515

Prompt user for a search query   900

Receive the search query, the search query comprising information related
to specific image meta-data   902

Provide the search query to network device 108 via communications
network 106   904

Receive via communications network 106 information related to each of
the new image files 406 that matches the search query   906

FIG. 9

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FIG. 10

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1014

Receive search query via communications network 106 from computing device 104   1100

Search image files 1012, which contain a plurality of new image files 406, to identify which of the plurality of new image files 406 have image meta-data 404 that matches the specific image-meta data associated with the search query   1102

Provide to computing device 104 via communications network 106 each of the new image files 406 that matches the specific image meta-data associated with the search query   1104

FIG. 11